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| <div style="display: flex; justify-content: space-between;"><div>0010/PTO Rev. 6/95</div><div>U.S. Department of Commerce Patent and Trademark Office</div></div> <div style="text-align: center; margin-top: 20px;"><h2 style="margin: 0;">DECLARATION</h2></div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"><div><input checked="" type="checkbox"/> Declaration Submitted With Initial Filing</div><div>OR <input type="checkbox"/> Declaration Submitted after Initial Filing</div></div> | | <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">Attorney Docket Number</td><td>10866/004</td></tr><tr><td>First Named Inventor</td><td>POMBEIRO, Armando, et al.</td></tr><tr><td colspan="2" style="text-align: center; background-color: #f2f2f2;">COMPLETE IF KNOWN</td></tr><tr><td>Application Number</td><td></td></tr><tr><td>Filing Date</td><td></td></tr><tr><td>Group Art Unit</td><td></td></tr><tr><td>Examiner Name</td><td></td></tr></table> | | | Attorney Docket Number | 10866/004 | First Named Inventor | POMBEIRO, Armando, et al. | COMPLETE IF KNOWN | | Application Number | | Filing Date | | Group Art Unit | | Examiner Name | | | | | | | | | | | | |
|--|---------------------------|---|--------------------------|-------------------------------------|-------------------------------------|-----------|----------------------------------|---------------------------|--------------------------|--|--------------------|----|-------------------|----|----------------|--------------------------|-------------------------------------|--------------------------|--------|----|------------|--------------------------|--------------------------|-------------------------------------|-----------------------|--------------------------|--|--|--|
| Attorney Docket Number | 10866/004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First Named Inventor | POMBEIRO, Armando, et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMPLETE IF KNOWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Application Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filing Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group Art Unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Examiner Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>As below named Inventor, I hereby declare that:</p> <p>My residence, post office address, and citizenship are as stated below next to my name.</p> <p>I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:</p> <p>VANADIUM CATALYSTS AND PROCESS FOR THE DIRECT CONVERSION OF METHANE INTO ACETIC ACID</p> <p style="text-align: center; font-size: small;">(Title of the Invention)</p> <p>the specification of which</p> <p><input checked="" type="checkbox"/> is attached hereto</p> <p>OR</p> <p><input type="checkbox"/> was filed on (MM/DD/YYYY) as United States Application Number or PCT International Application Number</p> <p> and was amended on (MM/DD/YYYY) (if applicable)</p> <p>I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.</p> <p>I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56</p> <p>I hereby claim foreign priority benefits under Title 35, United States Code § 19(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"><thead><tr><th rowspan="2">Prior Foreign Application Number(s)</th><th rowspan="2">Country</th><th rowspan="2">Foreign Filing Date (MM/DD/YYYY)</th><th rowspan="2">Priority Not Claimed</th><th colspan="2">Copy Attached?</th></tr><tr><th>YES</th><th>NO</th></tr></thead><tbody><tr><td>PCT/PT2003/000015</td><td>PT</td><td>10/15/2003</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>102859</td><td>PT</td><td>10/23/2002</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></tbody></table> <p><input type="checkbox"/> Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:</p> <p>I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below</p> <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;">Application Number(s)</th><th style="width: 30%;">Filing Date (MM/DD/YYYY)</th><th rowspan="2" style="width: 40%; text-align: center; vertical-align: top;"><input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.</th></tr></thead><tbody><tr><td style="height: 50px;"></td><td></td></tr></tbody></table> | | | | | Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Copy Attached? | | YES | NO | PCT/PT2003/000015 | PT | 10/15/2003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 102859 | PT | 10/23/2002 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Application Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority sheet attached hereto. | | |
| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Copy Attached? | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | YES | NO | | | | | | | | | | | | | | | | | | | | | | | | |
| PCT/PT2003/000015 | PT | 10/15/2003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| 102859 | PT | 10/23/2002 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| Application Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority sheet attached hereto. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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DECLARATION

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I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application Number | PCT Parent Number | Parent Filing Date (MM/DD/YYYY) | Parent Patent Number (if applicable) |
|--------------------------------|-------------------|---------------------------------|--------------------------------------|
| | | | |

☐ Additional U.S. or PCT International application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

| | | | |
|---------------------|--|------------------------------|---------------------|
| Firm Name | Brinks Hofer Gilson & Lione | Payor Number (if applicable) | 27879 |
| Name | Registration Number | Name | Registration Number |
| A. James Richardson | 26,983 | | |
| Lawrence A. Steward | 32,309 | | |
| David H. Badger | 22,597 | | |
| Sanders N. Hillis | 45,712 | | |
| Michael E. Wever | 43,984 | | |

☐ Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.

| | | | | |
|--|---------------------|----------------------------|---------------------|-------------------------|
| <input checked="" type="checkbox"/> Please direct all correspondence to: | Name | Lawrence A. Steward | | |
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| Address One Indiana Square, Suite 1600 | | | | |
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | | | | | | |
|--------------------------------|----------------|--|--|-----------------------------|-----------------|-----------------------|
| Name of Sole or First Inventor | | <input type="checkbox"/> A petition has been filed for this unsigned inventor. | | | | |
| Given Name | Armando | Middle Initial | | Family Name POMBEIRO | Suffix | |
| Inventor's Signature | | | | | Date | |
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| | | | | Applicant Authority | | |

☒ Additional inventors are being named on supplemental sheet(s) attached hereto.

| DECLARATION | | | | | | | | | | ADDITIONAL INVENTOR(S) Supplemental Sheet | | | | |
|---|----------|---|---------|-------------|--|----------|---------|---------|------|--|---------------------|--|--|--|
| Name of Additional Joint Inventor, if any: | | | | | <input type="checkbox"/> A petition has been filed for this unsigned inventor. | | | | | | | | | |
| Given Name | João | Middle Initial | | Family Name | FRAÚSTO DA SILVA | | | | | Suffix | | | | |
| Inventor's Signature | | | | | | | | | Date | | | | | |
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| POST OFFICE ADDRESS | | Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University | | | | | | | | | | | | |
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| Inventor's Signature | | | | | | | | | Date | | | | | |
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| Given Name | Patricia | Middle Initial | M. | Family Name | REIS | | | | | Suffix | | | | |
| Inventor's Signature | | | | | | | | | Date | | | | | |
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| City | Lisbon | State | | | ZIP | 1049-001 | | Country | PT | | Applicant Authority | | | |
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| Inventor's Signature | | | | | | | | | Date | | | | | |
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| City | Lisbon | State | | | ZIP | 1049-001 | | Country | PT | | Applicant Authority | | | |
| <input type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto. | | | | | | | | | | | | | | |